

## Setting up the server

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
ab492cf0b2a4: Pull complete
991f7f97a9d8: Pull complete
Digest: sha256:e4c2b93c04762468a6cce6d507d94def02ef4dc285278d0d926e09827f4857db
Status: Downloaded newer image for httpd:2.4
04a86f7fe260830d37139c0405c41b1b63980cac227044a9afcd60e32d27640c

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs/

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 httpd:2.4
a53163be84a58b77d783a3bfe17d515657685101cfc5690c4366ad2973b1a9eb

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works!</h1></body></html>
```

## Managing volumes

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume create myvolume
myvolume

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME
local       myvolume

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume rm myvolume
myvolume

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume ls
DRIVER      VOLUME NAME
```

## Mounting volumes on containers

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume create httpd_htdocs
httpd_htdocs

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
69692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
ab492cf0b2a4: Pull complete
991f7f97a9d8: Pull complete
Digest: sha256:e4c2b93c04762468a6cce6d507d94def02ef4dc285278d0d926e09827f4857db
Status: Downloaded newer image for httpd:2.4
a15f0ffc161fd771234491ef0593092e99cbc13a073317b53615ed18b2024627

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker cp index.html apache:/usr/local/apache2/htdocs

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v httpd_htdocs:/usr/local/apache2/htdocs/ httpd:2.4
194d0ae803d8813edd7776724136618cafb7df6f1c1ff174b0ace0a04816656a

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker volume rm httpd_htdocs
httpd_htdocs
```

## Mounting host directories on containers

```
C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v ./usr/local/apache2/htdocs/ httpd:2.4
docker: Error response from daemon: create .: volume name is too short, names should be at least two alphanumeric characters.
See 'docker run --help'.

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker run --rm -d --name apache -p 80:80 -v C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes:/usr/local/apache2/htdocs/ httpd:2.4
e86512966bc05e8b1fc10ea670319d6fa1b8b94e94265ec44b9063dae974f492

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works in quite well in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>curl localhost
<html><body><h1>It works quite well in Docker!</h1></body></html>

C:\Users\kaysagun\Desktop\CoE_197\ME8_Containerization_and_Docker\5-volumes>docker stop apache
apache
```